ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY
NOTICE OF INTENT
INDIVIDUAL TREATMENT FACILITIES
NPDES GENERAL PERMIT ARG550000

Application Type: New ☒ Renewal ☐ (Permit # ARG55)

I. PERMITTEE/OPERATOR INFORMATION

Permittee (Legal Name): Jordan and Marlee Forste
Permittee Mailing Address: 16729 Summer Rain
Permittee City: Fayetteville
Permittee State: AR Zip: 72704
Permittee Telephone Number: 479-790-0022
Permittee Fax Number: 
Permittee E-mail Address: jforste@ridoutlumber.com

Operator Type:
☐ State ☐ Partnership
☐ Federal * Corporation
☒ Sole Proprietorship/Private

*State of Incorporation: The legal name of the Permittee must be identical to the name listed with the Arkansas Secretary of State.

II. INVOICE MAILING INFORMATION (Home owners are exempt.)

Invoice Contact Person: N/A City: 
Invoice Mailing Company: 
Invoice Mailing Address: 
State: Zip: 
Telephone: 

III. FACILITY INFORMATION

Facility Name: Forste Residence
Facility Address: 16729 Summer Rain Road
Facility County: Washington
Facility Latitude: 36 Deg 4 Min 3.72 Sec
Datum: Accuracy: Method: Scale: Description: 
Facility Contact Person: Jordan Forste
Facility Contact Person: Jordan Forste
Telephone Number: 479-225-0488
Facility City, State & Zip: Fayetteville, AR 72704
Facility Longitude: 94 Deg 3 Min 33.66 Sec

IV. DISCHARGE INFORMATION

Outfall Number: 001 Flow: gpd (Gallons per Day)
Stream Segment: 4k Hydrologic Basin Code: 11010001
Outfall Latitude: 36 Deg 3 Min 59.48 Sec
Outfall Longitude: 94 Deg 3 Min 33.98 Sec
Datum: Accuracy: Method: Scale: Description: 

Type of Treatment: Bio-Microbics Microfast Unit 0.5 with UV and Post Aeration
Receiving Stream: White River

V. FACILITY PERMIT INFORMATION

NPDES Individual Permit Number (If Applicable): AR00
NPDES General Permit Number (If Applicable): ARG
State Construction Permit Number: 
NPDES General Construction Stormwater Permit Number (If Applicable): ARR15
VI. OTHER INFORMATION:

<table>
<thead>
<tr>
<th>Operator Name:</th>
<th>David Meints</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator License Number:</td>
<td>009055</td>
</tr>
<tr>
<td>License Class:</td>
<td>Class III</td>
</tr>
<tr>
<td>Consultant Contact Name:</td>
<td>David Meints</td>
</tr>
<tr>
<td>Consultant Email Address:</td>
<td><a href="mailto:david@meincowastewater.com">david@meincowastewater.com</a></td>
</tr>
<tr>
<td>Consultant Address:</td>
<td>PO Box 1091</td>
</tr>
<tr>
<td>City: Bryant</td>
<td>State: AR</td>
</tr>
<tr>
<td>Zip: 72089</td>
<td></td>
</tr>
<tr>
<td>Consultant Phone Number:</td>
<td>501-804-0837</td>
</tr>
<tr>
<td>Consultant Fax Number:</td>
<td>501-821-4048</td>
</tr>
</tbody>
</table>

Has this treatment system been approved by AHD? Yes ☒ No ☐

Disclosure Statements:

Arkansas Code Annotated Section 8-1-106 requires that all applicants for the issuance or transfer of any permit, license, certification or operational authority issued by the Arkansas Department of Environmental Quality (ADEQ) file a disclosure statement with their applications. The filing of a disclosure statement is mandatory. No application can be considered complete without one. You must submit a new disclosure statement even if you have one on file with the Department. The form may be obtained from ADEQ web site at: http://www.adeq.state.ar.us/disclosure_stmt.pdf.

VII. CERTIFICATION OF OPERATOR

☑ (Initial) "I certify that, if this facility is a corporation, it is registered with the Secretary of the State of Arkansas."
☑ (Initial) "I certify that the cognizant official designated in this Application is qualified to act as a duly authorized representative under the provisions of 40 CFR 122.22(b). If no cognizant official has been designated, I understand that the Department will accept reports signed only by the Applicant."
☑ (Initial) "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

<table>
<thead>
<tr>
<th>Responsible Official Printed Name:</th>
<th>Jordan Forste</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title: Owner</td>
<td>Date: 9/25/19</td>
</tr>
</tbody>
</table>

| Cognizant Official Printed Name: | David A. Meints |
| Cognizant Official Signature: | ☑ |
| Title: Class III Operator | Telephone: 501-804-0837 |

| Cognizant Official Email: | david@meincowastewater.com |

X. PERMIT REQUIREMENT VERIFICATION

Please check the following to verify completion of permit requirements.

Yes ☑ No ☐ * If No is answered for any of the questions, then a permit can not be issued!

Submittal of Complete NOI? ☑ ☐
Submittal of Required Permit Fee? ☐ ☑ Check Number: 
Submittal of AHD Form EHP-19? ☑ ☐
Submittal of Site Map? ☑ ☐
Submittal of Disclosure Statement ☐ ☑

WATER DIVISION
5301 NORTHSHORE DRIVE / NORTH LITTLE ROCK, ARKANSAS 72118
PHONE 501-682-0623 / FAX 501-682-0880
www.adeq.state.ar.us
**Arkansas Department of Health**  
**Environmental Health Protection**

**Individual Onsite Wastewater System Permit Application**

<table>
<thead>
<tr>
<th>Permit Type</th>
<th></th>
<th>Disposal Method (check one)</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Installation</td>
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<td></td>
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<tr>
<td>Alteration / Repair</td>
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**DR Environmental ID #**  
7 6 0 1 0 5 5 4 7

<table>
<thead>
<tr>
<th>Part 1 Application</th>
<th>Treatment Type</th>
<th>Disposal Method</th>
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</thead>
<tbody>
<tr>
<td></td>
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</tr>
<tr>
<td>ODT = Standard Septic Tank</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ISF = Intermittent Sand Filter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PMF = Proprietary Media Filter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OTH = Other (Describe)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ATU = Aerobic Treatment Plant</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RSP = Re-circulating Sand Filter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RGF = Re-circulating Gravel Filter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLD = Holding Tank</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STP = Standard Treatment Plant</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SUR = Surface Discharge</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CPF = Capping Fill</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OTH = Other (Describe)</td>
<td></td>
<td></td>
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<tr>
<td>LPD = Low Pressure Distribution</td>
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<td></td>
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<tr>
<td>HLD = Holding Tank</td>
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<tr>
<td>SRL = Sand Distribution</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DRP = Septic Tank</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. **Owner/Applicant’s Name:** Jordan Forsta
2. **Phone Number:** (479) 225-0488
3. **Mailing Address:** 123 West Augusta Drive #7, Fayetteville, AR 72703
4. **County:** Washington
5. **Address of Proposed System (If a 911 address is not available, attach detailed directions or map):**
   16729 Summer Rain, Fayetteville, AR 72703
6. **Subdivision Name:**
7. **Approval Date:**
8. **Date Recorded:**
9. **Lot Number:**
10. **Lot Dimensions:**
198' x 860'
11. **Total Area (Acres):** 3.0
12. **# Bedrooms # People:** 4
13. **Daily Flow (GPD):** 450
14. **Brief Legal Description of Property:** NW 1/4, NE 1/4, Section 16, Township 16 North, Range 29 West, Washington County
15. **Water Supply (Specify supplier, if Public Water):** Public Water
16. **GFS Coordinates:** 35.06873, -94.05957
17. **Loading Rates (gpd/ft²):**
18. **System Specifications:**
   - Primary Area n/a a. Size of Septic Tank 400
   - Secondary Area n/a b. Size of Dose Tank n/a
   - Percolation Test (min/in) c. Absorption Area n/a
   - Primary Area Avg n/a d. Number of Field Lines n/a
   - Secondary Area n/a e. Length of Field Lines n/a
19. **Utilization Verification:**
   - I hereby attest that item 12, the number of bedrooms (number of persons for commercial) and square footage of the structure that will utilize the designed individual onsite wastewater system in this permit application, is accurate. I have reviewed the permit application and understand the layout, installation, maintenance, operation and expense(s) that may be associated with this system.

**TO THE OWNER**

The permit for construction may be deemed invalid by the local Environmental Health Specialist before the start of construction, if the site and/or soil conditions have changed after approval of this permit, or if the information within this permit is inaccurate or has been found to be misrepresented. Approval for operation does not constitute a guarantee that the system will function properly. The approval states that the system was designed and installed according to the Arkansas Department of Health, Rules and Regulations Pertaining to Onsite Wastewater Systems, unless there are exceptions or deviations noted in the comments. A Permit for Construction is valid for one (1) year from the date of approval. The authorized agent must revalidate a permit more than one (1) year old prior to the start of any construction.

**Owner/Applicant Signature:** See back page

**Designated Representative:**

**Soil Certified:** Yes

**Designated Representative Signature:**

David A. Meints  
07/30/2018  
501-821-3837/501-804-0837

**Utilization Verification:**

The information and specifications in the application has been reviewed and found to meet the requirements of the Arkansas Department of Health Rules and Regulations Pertaining To Onsite Wastewater Systems. A PERMIT FOR CONSTRUCTION is hereby issued.

**Environmental Specialist Signature:**

**EHS Number:**

Date  
EHP-19 (R 8/13) Page 1
### Part 1

**22. Soil Criteria (Primary Area)**
Indicate the depth to items a-f, if observed in the soil (designate in inches)

<table>
<thead>
<tr>
<th></th>
<th>a. Bedrock</th>
<th>b. BSWT</th>
<th>c. MSWT</th>
<th>d. LSWT</th>
<th>e. Adj. MSWT</th>
<th>f. Adj. LSWT</th>
<th>g. H.C./Depth</th>
<th>h. Loading Rate (gpd/ft²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24&quot;</td>
<td>n/a</td>
<td>Surface</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>Mod/24&quot;</td>
<td>Unsuitable</td>
</tr>
</tbody>
</table>

**23. Soil Criteria (Secondary Area)**
Indicate the depth to items a-f, if observed in the soil (designate inches)

<table>
<thead>
<tr>
<th></th>
<th>a. Bedrock</th>
<th>b. BSWT</th>
<th>c. MSWT</th>
<th>d. LSWT</th>
<th>e. Adj. MSWT</th>
<th>f. Adj. LSWT</th>
<th>g. H.C./Depth</th>
<th>h. Loading Rate (gpd/ft²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24&quot;</td>
<td>n/a</td>
<td>Surface</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>Mod/24&quot;</td>
<td>Unsuitable</td>
</tr>
</tbody>
</table>

**24. Seasonal Water Table (SWT) Classes Detail**

<table>
<thead>
<tr>
<th>Primary Area</th>
<th>List Redoximorphic Features and/or Clay Content Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brief</td>
<td>in n/a</td>
</tr>
<tr>
<td>Moderate</td>
<td>in Clay percentage &gt; 35% but less than 49%</td>
</tr>
<tr>
<td>Long</td>
<td>in n/a</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Secondary Area</th>
<th>List Redoximorphic Features and/or Clay Content Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brief</td>
<td>in n/a</td>
</tr>
<tr>
<td>Moderate</td>
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</tr>
<tr>
<td>Long</td>
<td>in n/a</td>
</tr>
</tbody>
</table>

**Comments**
Permit requires an ATU (FAST 0.5) with UV disinfection and a surface discharge. NPDES Permit required. If system is not installed within a year of the date approved, a revalidation fee may be required. Three soil pits, all not loadable. Rock shelf/out cropping. Could not justify drip dispersal.

### Part 2 Installation Inspection

<table>
<thead>
<tr>
<th>Septic tank manufacturer</th>
<th>Pump information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Septic tank material</td>
<td>Trench media and width</td>
</tr>
<tr>
<td>Dose tank manufacturer</td>
<td>Depth of interceptor drain</td>
</tr>
<tr>
<td>Dose tank material</td>
<td>Depth of settled fill</td>
</tr>
</tbody>
</table>

| Name of Installer | License Number |

| Installation Inspected by | ☐ Environmental Health Specialist | ☐ Designated Representative |

(check one or installer signs System Installation Verification below)

Signature

EHS / License Number

Date

**System Installation Verification**
I have installed this system as designed and in compliance with all Rules and Regulations Pertaining to Onsite Wastewater Systems.

Installer Signature

License Number

Date

### Part 3 Permit for Operation

The information contained in Part 1 and 2 of this form has been reviewed and found to meet the requirements of the Arkansas Department of Health. THE PERMIT FOR OPERATION of this system is hereby issued.

| Environmental Health Specialist | Signature | EHS Number | Date |

Comments

| Site Revalidation conducted by | ☐ Environmental Health Specialist | ☐ Designated Representative |

(check one)

Signature

EHS / License Number

Date
Residential Biotube® Effluent Filters

Applications
Our patented* 4-inch (100-mm) Biotube Effluent Filters, Biotube Jr., Biotube Base Inlet Filters, and Biotube Insert Filters are ideal for residential septic tanks and have a lifetime warranty. They prevent large solids from leaving the tank, dramatically improving wastewater quality and extending the life of residential drainfields.

4-inch (100-mm) Biotube Effluent Filter

Model FTJS-0418
(4-inch Biotube cartridge available separately as Insert Filter)

8-inch (200-mm) Base Inlet Filter
4-inch (100-mm) Insert Filter

Standard Features & Benefits
- Has 5-10 times more flow area than other brands, so lasts many times longer between cleanings, increasing homeowner satisfaction
- Installs in minutes inside new or existing tanks; extendible tee handle for easy removal
- Easy to clean by simply hosing off whenever the tank needs pumping
- Removes about two-thirds of suspended solids, on average, extending drainfield life
- Corrosion-proof construction, to ensure long life
- Lifetime warranty

Optional Features & Benefits
- Alarm available, to signal the need for cleaning
- Flow modulating discharge orifices available to limit flow rate leaving tank, mitigating surges and increasing retention time
- Custom and commercial sizes available

Biotube Filtration Process
Effluent from the relatively clear zone of the septic tank, between the scum and sludge layers, horizontally enters the Biotube Effluent Filter. Effluent then enters the annular space between the housing and the Biotubes, utilizing the Biotubes' entire surface for filtering. Particles larger than the Biotube's mesh are prevented from leaving the tank.

Orenco's superior effluent filters resist clogging better than all other brands. Our standard, full-sized 4-inch (100-mm) Biotube Effluent Filter provides maximum long-term protection in a complete package, with housing. Our 4-inch (100-mm) Biotube Jr., at half the size of our standard model, has more filtering capacity than the full-sized filters sold by other manufacturers. For low-profile tanks, there's the Base Inlet Filter. And for tanks with existing outlet tees, the Biotube Insert Filter is ideal.

* Covered by patent numbers 5,490,636 and 4,430,523

To Order
Call your nearest Orenco Systems®, Inc. Distributor. For nearest Distributor, call Orenco at 800-348-9843, or visit www.orenco.com and click on "Where to Buy."
NOTES
1. Airline piping to FAST® may not exceed 100 FT [30m] total length and have a maximum of 4 elbows in the piping system. For distances greater than 100 FT [30m] consult factory. Blower must be located above flood levels on a concrete base 26" X 20" X 2" [65 X 50 X 5cm] min.
2. Vent to desired location and cover opening with a vent grate with at least 7 sq in. [45 sq cm] open surface area. Secure with stainless steel screws. Vent piping must not allow condensate build up or create back pressure. Vent must be above finished grade or higher (see sheet 4 of 4).
3. All appurtenances to FAST® (e.g. tanks, access ports, electrical, etc.) must conform to all applicable country, state, province, and local plumbing and electrical codes. Pump out access shall be adequate to thoroughly clean out both zones.
4. All inspection, viewing and pump out ports must be secured to prevent accidental or unauthorized access.
5. Tank, piping, conduit, etc. are provided by others. Blower control system by Bio-Microbics, Inc. See Installation Manual.
6. If less than the specified minimums are considered necessary, consult factory for guidance.
7. All piping and ancillary equipment installed after FAST® must not impede or restrict free flow of effluent.
8. The tank(s) shall be designed to prevent air passage between the settling zone/tank and the treatment zone and preventing an air lock. Examples include include a baffle wall sealed to the lid or treatment zone inlet line with a pipe cap. Consult factory for guidance.
9. The air supply line into the FAST® unit must be secured to prevent vibration induced damage. The air supply line should be secured with a non-corrosive clamp every 2' min [60 cm]. See alternate air supply option on sheet 4 of 4.
10. Specialized treatment levels may require specific features to be incorporated into the design. Consult factory for guidance.
11. Min. height may be reduced, consult factory and reference "Low Profile Module Procedure.pdf"
12. Refer to sheet 4 of 4 for leg extensions requirements.

DO NOT SCALE UNLESS NOTED DIMENSIONS ARE IN INCHES [CENTIMETERS] TOLERANCES ±0.02 IN/IN [±0.05 CM/CM]

MicroFAST 0.50 FAST Unit

Weight: 12 lbs [5.4 KG] Size: 38" X 35" X 60" [100 X 91 X 153 cm]

BIO-MICROBICS 2014
Minimum leg extension assembly
see note 1-4

2 screws
per side
included

FAST® Vent Option

NDS Grate MIN / in
SQ [45 cm SQ] of
open surface area

Fasten with non-
corrosive screws

Alternate Air Supply
Option

Non-corrosive clamp
every 2 feet [0.6m]

2" Air
Supply Line

2" Air
Lift

Riser

Gasket

Gasket

Riser

2" PVC
Coupler

6 1/8" MIN
[15.4 MIN]

Notes
1. Secure leg extension to the FAST® unit by placing two screws on each side of the leg extension (4 screws per foot are included).
2. Cut 4" schd. 40 PVC pipe (not included) to obtain the desired height. Minimum pipe length of 6 1/8" [15.56cm] will provide minimum clearance of 10". For heights greater than 18" [45.7cm] use schd. 80 PVC pipe (not included).
3. Anchor the leg extensions to the tank with non-corrosive hardware (not included) at the provided mounting points.
4. If less than the specified minimums are considered necessary, consult factory for guidance.
5. The air supply line into the FAST® unit must be secured to prevent vibration induced damage. The air supply line should be secured with a non-corrosive clamp every 2ft [0.6m] minimum.
6. Tank, anchors, piping conduit, blower, housing pad and vents are provided by others.
Specifications for MicroFAST 0.50 Wastewater Treatment System

1. GENERAL
   The contractor shall furnish and install (1) MicroFAST® 0.50 treatment system as manufactured by Bio-Microbics, Inc. The treatment system shall be complete with all needed equipment as shown on the drawings and specified herein.

   The principal items of equipment shall include the FAST® system insert, blower assembly, blower controls and leg extensions or lid. All other items will be provided by others.

   The MicroFAST 0.50 unit shall be situated within a 450 Gallon (1700 L) minimum compartment as shown on the drawings. Suggested maximum setting zone is 1.5' X the daily flow. Tank must provide adequate pump out access and conform to local, state, and all other applicable codes. The contractor shall coordinate the proper fabrication of the tank between the FAST system and tank supplier with regard to fabrication of the tank, installation of the FAST unit, and delivery to the job site.

2. OPERATING CONDITIONS
   The MicroFAST 0.50 treatment system shall be capable of treating the waste water produced by typical family activities (bath, laundry, kitchen, etc.) ranging from 1 to 8 people and not to exceed 500.5 Gallons per day (1860 LPD) provided the waste contains nothing that will interfere with biological treatment. The FAST system is a biological treatment system not meant for non-biodegradable or industrial wastewater.

3. MEDIA
   The FAST® media shall be manufactured of rigid PVC, polyethylene, or polypropylene and shall be supported by the polyethylene insert. The media shall be fixed and installed to ensure that sloughed solids descend through the media to the bottom of the septic tank.

4. BLOWER
   The MicroFAST 0.50 unit shall come equipped with a regenerative type blower capable of delivering 17.25 CFM (3146 m³/hr). The blower assembly shall include an inlet filter with metal filter element. The blower shall be mounted outside the tank on a contractor supplied concrete base. Blower piping to the tank shall use non-corrosive material (PVC, Galvanized, or Stainless Steel). Do not run galvanized pipe inside the treatment tank. Refer to Installation Manual for further details.

5. REMOTE MOUNTED BLOWER
   The blower shall be placed on a contractor supplied concrete base. The blower must sit in standing water and its elevation must be higher than the tank and normal flood level. A two-piece, rectangular housing shall be provided. The discharge line from the blower to the MicroFAST® System shall be provided and installed by the contractor.

6. ELECTRICAL
   The electrical service should be within 150 feet (45 m) of the blower. Consult local codes or larger wiring distances. All wiring must conform to all applicable codes (IEC, NEC, etc.).

   Wiring directions must prevent significant voltage loss. Input power on 60Hz electrical systems: 110/220VAC, 120, 3.5/1.7 FLA, on 50 Hz electrical systems: 220VAC, 1.0, 1.9 FLA. Other voltages and phase are also available. Actual power consumption varies with site conditions. All conduit and wiring shall be supplied by the contractor.

7. CONTROLS
   The control panel provides power to the blower and contains an alarm consisting of a visual and audible alarm capable of signaling blower circuit failure and high water conditions.

   The control panel is equipped with SRBR® (Sequencing Batch Reactor) timed control feature. A manual alarm silence section is included.

8. INSTALLATION AND OPERATING INSTRUCTIONS
   All work must be done in accordance with local codes and regulations. Installation of the FAST 0.50 shall always be done in accordance with the written instructions provided by the manufacturer. Manuals shall be furnished, which will include a description of system installation, operation, and maintenance procedures.

9. FLOW AND DOING
   FAST® systems have been successfully designed, tested and certified receiving gravity, demand-based inflow. When inflow is controlled by pump or other means to help with highly variable flow conditions, then multiple dosing events should be used to maximize performance. The flow rate shall not exceed 5 gpm (19 Lpm) with a maximum hourly flow rate not to exceed 10% of the design daily flow (50 gph @ 190 Lph).

10. WARRANTY
    Bio-Microbics, Inc. warrants all new residential FAST® models (MicroFAST® 0.50, 0.625, 0.75, 0.90, and 1.5) against defects in materials and workmanship for a period of two years after installation or three years from the date of shipment which ever occurs first. All other FAST® system models are warranted for a period of one year after installation or eighteen months from date of shipment, whichever occurs first. All are subject to the following terms and conditions below:

    During the warranty period, if any part is defective or fails to perform as specified when operating within conditions, and if the equipment has been assembled and is being operated and maintained in accordance with the written instructions provided by Bio-Microbics, Inc., Bio-Microbics, Inc. will repair or replace all its standard or such components that have been damaged by following such instructions shall be borne by the owner. The warranty will not cover parts that have been disassembled by unauthorized persons, improperly installed or damaged to fix an improper installation or operation, or installed in the wrong location.

    This warranty applies only to the treatment plant and does not include any of the structure, lighting, plumbing, drainage, electrical, or other systems. Bio-Microbics cannot be held liable for any cost resulting from such failures, losses, or defects in design, installation, workmanship, or service, replacements other than those specifically provided for in this warranty.

BIO-MICROBICS BETTER WATER. BETTER WORLD®

DO NOT SCALE UNLESS NOTED DIAMETERS ARE IN INCHES TOLERANCES ±0.02 IN/IN (±0.05 CM/CM)

<table>
<thead>
<tr>
<th>WEIGHT</th>
<th>BASE</th>
<th>DARWIN</th>
<th>CLOCHER</th>
<th>SHEET</th>
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<td>1.0</td>
</tr>
</tbody>
</table>

BIO-MICROBICS ©2014
BIO-MICROBICS MicroFAST 0.5 SPECIFICATIONS
DISTRIBUTOR - MEINCO, INC.
501-804-0837, DAVID MEINTS

POWER REQUIREMENTS
- SUB PANEL BREAKER BOX
  - 20 AMP, 110V, PUMP
  - 15 AMP, 110V, CONTROLS
  - 15 AMP, 110V, BLOWER

MVP CONTROL PANEL
- 1" ELECTRICAL CONDUIT W/SWEEPS

18" SOLID
LID A
LID B - 24" VENTED W/CARBON FILTER
LID C - 18" SOLID
LID D - 24" VENTED
LID E - 24" SOLID

TRANSPORT LINE, SCHEDULE 40

4" SCHEDULE 40 PIPE
- CLEAN OUT

TANK SUPPLIED BY WHITTEN CONCRETE

MICRO FAST UNIT 0.5

SPLICE BOX
- PUMP

450 800 250

BLOWER

2" SCHEDULE 40

SALGORE UV UNIT

OUTLET FILTER, FTS 044-36

INLET T, 12" BAFFLE

ORIFACE SHEILD, 1", HANG FLOAT TREE HERE

FLOAT TREE, 1" PIPE WITH FLOAT BRACKETS

SIGNAL FLOATS, LOW AMP, NARROW ANGLE
BIO-MICROBICS MicroFAST 0.5 WIRING SPECIFICATIONS
DISTRIBUTOR - MEINCO, INC.
501-404-E017, DAVID MEINTS

MVP PANEL WIRING REFERENCE

FROM SPICE BOX

PUMP BLACK (BLACK)
PUMP WHITE (YELLOW)
PUMP GROUND (GREEN)
BOTTOM FLOAT BLACK (BLUE)
MIDDLE FLOAT BLACK (BLUE BLACK)
TOP FLOAT BLACK (RED)
FLOAT COMMONS WHITE (RED BLACK)
UV BLACK (ORANGE BLACK)
UV WHITE (ORANGE)
BLOWER BACK
BLOWER WHITE
BLOWER GROUND

GOES TO

MVP TERMINAL 6
MVP TERMINAL 7
MVP GROUND TERMINAL
MVP TERMINAL 1
MVP TERMINAL 2
MVP TERMINAL 3
MVP TERMINAL 5
BLOWER PANEL UV
BLOWER PANEL UV
BLOWER PANEL BLOWER
BLOWER PANEL BLOWER
BLOWER PANEL BLOWER
BLOWER PANEL BLOWER
BLOWER PANEL BLOWER

MVP PANEL SETTINGS LOGO UNIT

TIMER ON (SEC) 30:00
TIMER OFF (MIN) 30:00
TIMER OVR ON (SEC) 35:00
TIMER OVR OFF (MIN) 03:00
TOTAL TIMER OVR (MIN) 10:00
HLA DELAY (HRS) 04:00

BLOWER PANEL WIRING REFERENCE

FROM BLOWER

BLOWER BLACK (BLACK)
BLOWER WHITE (WHITE)
BLOWER GROUND (GREEN)

GOES TO

BLOWER TERMINAL L1
BLOWER TERMINAL N/2
BLOWER TERMINAL G

NOTE: CURRENT SENSOR JUMPER NEEDS TO BE MOVED TO "OFF"

SUB PANEL WIRING REFERENCE

FROM SUB PANEL

20 AMP 110V, PUMP CIRCUIT
20 AMP 110V, NEUTRAL
GROUND
15 AMP 110V, CONTROL CIRCUIT
15 AMP 110V, NEUTRAL
15 AMP 110V, BLOWER CIRCUIT
15 AMP 110V, NEUTRAL
GROUND

GOES TO

MVP PANEL 20 AMP BREAKER
MVP PANEL 20 AMP BREAKER
MVP PANEL GROUND
MVP PANEL 10 AMP BREAKER
MVP PANEL TERMINAL N
BLOWER PANEL POWER L1
BLOWER PANEL N/2
BLOWER GROUND
SERVICE AND MAINTENANCE CONTRACT

1. Parties. This contract ("Agreement" or "Contract") is between Meinco Septic Systems, Inc., ("Meinco") and Jordan Forste, ("Client"), referred to individually as a "Party" and collectively as the "Parties."

2. Service Location. This is a Contract for septic system service and maintenance services provided by Meinco for Client located at 18729 Summer Rain, Fayetteville, AR 72703, hereinafter referred to as the "Service Site."

3. Service Fees. Client agrees to pay Meinco One Hundred Fifty Dollars ($150.00) for septic system service and maintenance specifically work performed every Three Months (Quarterly) and described more specifically below (hereinafter referred to as "Service Work"). Meinco and Client agree that the invoiced amount is good consideration for this Contract and the services set forth below and reflects the bargain failed for terms of this agreement.

4. Materials Charges. During regular maintenance Meinco will replace materials necessary to keep the septic system operating efficiently (chlorine tablets, UV light bulbs, floats, filters, etc.). Meinco and Client agree that Meinco shall submit to client the costs of maintenance parts and materials and Client will promptly pay the same.

5. Laboratory Fees.
   A) This paragraph is inapplicable.
   B) Client agrees that Meinco will use a third party laboratory, Environmental Services, Inc., for any sampling that is required under this Contract. In such event, Meinco shall submit to Client a laboratory fee of $125.00 and Client will promptly pay the same.

6. Services Provided. Meinco agrees to provide the following Service Work to the Client and the Service Site:
   A) Maintenance requirements, including review of system components and their working condition, monitoring of solid levels to determine system efficiency, and periodic cleaning of system filters or media.
   B) I. This paragraph is inapplicable.
   II. Necessary sampling and submission of paperwork every month(s) as required to comply with the Arkansas Department of Health Onsite Maintenance Program.
   C) Necessary paperwork every month(s) as required to comply with the Arkansas Department of Health and/or the Arkansas Department of Environmental Quality.
   D) I. This paragraph is inapplicable.
   II. Sampling of discharge every month(s) in coordination with a 3rd party laboratory for required laboratory tests.

7. Contract Duration. This contract shall be for a period of 24 month(s) from the date this Contract is executed by the parties on page 2.

8. Flow Requirements. This contract shall be null and void if septic system flow exceeds 450 gallons per day.

9. Modification to System. If the septic system is modified, abused, mis-used, or altered, then Meinco's responsibility to service or maintain the septic system is terminated. Meinco may remedy such conditions by replacing parts or correcting defects. If Meinco makes such changes to the septic system, then it may charge to Client the costs of repairs, modifications, parts, and labor. Meinco may, at its discretion, seek payment in advance of making any repairs or modifications to the septic system. In such event, Meinco shall not be responsible for any damage or adverse effects for its delay in making repairs or modifications to the septic system.

10. Access to System. Client agrees to provide Meinco access to the septic system as well as its parts and components.

11. Termination by Client. Client may terminate this contract by providing thirty (30) days written notice to Meinco.

12. Termination by Meinco. Notwithstanding, and in addition to, any other provision or term in this Contract, MEINCO MAY TERMINATE THIS CONTRACT AT ANY TIME AND WITHOUT PREVIOUS NOTICE TO CLIENT.

13. Solid Removal. Solid removal is not a covered service and shall incur an additional fee. If Meinco removes solids from the septic system, then it may charge to Client the costs of solid removal. In any event, Meinco shall not be responsible for any damage or adverse effects for any delay in removing solids.

14. Indemnity. To the fullest extent permitted by law, Client shall indemnify, hold harmless, and defend Meinco and any agent or employees of Meinco from and against all injuries, claims, damages, losses, and expenses, including, but not limited to, attorneys' fees, arising directly or indirectly out of the obligations herein undertaken or resulting out of operations related to the Service Work or Service Site conducted by Meinco, Meinco's agents, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such injury, claim damage, losses, or expenses is caused in part by a party indemnified. Such obligation shall not negate, abridge, or otherwise reduce the rights or obligations of indemnity which would otherwise exist to a party or person described in this paragraph.
15. Assignment. Client agrees that even though this is a contract for services, Meinco may assign this Contract to any third party without written notice to Client.

16. Bilateral Contract. Meinco and client specifically agree that Client is seeking Meinco's promise to perform and not its performance.

17. Claims Against Meinco. Client shall give Meinco written notice of all claims within five (5) days of Client's knowledge of facts giving rise to the event for which claim is made. Otherwise, such claims shall be deemed waived by Client. All unresolved claims, disputes, and other matters in question between Meinco and Client shall be resolved in the manner provided for in this Agreement.

18. Rights Upon Breach. If Client breaches this Agreement with Meinco, Meinco may stop all work, including all Service Work. Additionally, Client will be liable to Meinco for consequential, incidental, and reliance damages as well as attorneys' fees and court costs. Such liability upon Client shall extend to petitions for and orders of contempt as well as any attempts by Meinco to collect upon any debt or damages owed to it by Client, including those entered by court of law or other dispute resolution proceeding.

19. Direct Discussion. If a dispute arises out of or relates to this Agreement, the Parties shall endeavor to settle the dispute through direct discussion before advancing to any dispute resolution proceeding.

20. Joint Drafting. The Parties expressly agree that this Agreement was jointly drafted and that this Agreement shall be construed neither against nor in favor of either Party. Instead, this Agreement shall be construed in a neutral manner.

21. Choice of Law. The Parties expressly agree that any dispute or claim filed or heard in any jurisdiction concerning or relating to this Agreement or worked performed as a result of this Agreement shall be governed by the laws of the State of Arkansas.

22. Forum Selection and Choice of Venue. The Parties expressly agree that any dispute or claim arising from, filed, or heard concerning or relating to this Agreement or work performed as a result of this Agreement shall be heard in Seale County, Arkansas, and no other forum. If this clause is penetrated and the hearing concerning the dispute removed to the United States federal court system, then the Parties expressly agree that the dispute shall be heard in the United States District Court for the Eastern District of Arkansas, Western Division, at the Richard Sheppard Arnold United States Courthouse in Little Rock, Arkansas.

23. Waiver of Agreement Terms. Meinco, at its sole discretion and leisure, may waive any term in this Agreement. Such waiver shall not, under any conditions or circumstances, constitute a modification of this Agreement. Additionally, such waiver shall not, under any conditions or circumstances, constitute a course of performance, course of dealings, or trade usage between Meinco and Client. Any waiver by Meinco shall be limited to a single incident or event. No waiver of any term of this Agreement is valid unless it is in writing, signed by Meinco, and attached to this Agreement as an addendum. It is the responsibility and duty of Client to draft any written waiver and to present it to Meinco for Meinco's approval and signature.

24. Force Majeure. Neither Party shall be in breach of its obligations under this Agreement (other than payment obligations) or incur any liability to the other Party for any losses or damages of any nature whatsoever incurred or suffered if and to the extent that the other party is prevented from carrying out its obligations by, or such losses or damages are caused by, a force majeure event. For purposes of this paragraph, the failure of the state of Arkansas or the United States of America to act according to current practices, procedure, or law at the time of the making of this Contract shall be considered a force majeure event. Such event by the government shall be in addition to any current or commonly accepted definition of force majeure event.

25. Merger and Integration. Meinco and Client agree that this Agreement represents a full, final, and complete memorial of their Agreement for the Service Work and that this Agreement does not rely upon any term or promise not otherwise specified within the four corners of this Agreement.

26. No Oral Modification. Meinco and Client agree that this Agreement shall not be subject to oral modification. The Parties agree that any modification made or agreed to by the Parties shall be in writing, signed by both Parties, and attached to this Agreement as an Addendum.

By signing this Agreement below, I indicate that I have read this Agreement and its terms, consisting of two (2) pages, excluding any Addendum or Addenda, and that these express terms are both acceptable and agreeable to me. I further declare that these terms do not represent an undue hardship, are not illusory, and are not unconscionable as I have expressly bargained for these terms in consideration of entering into this Contract for the value specified in paragraph three (3).

Meinco Septic Systems, Inc.

[Signature]

Client

[Signature]

Date: 7/30/2018

Date: 7/31/18
Arkansas Department of Health  
4815 West Markham, Slot 46  
Little Rock, Arkansas 72205-3867  

MEMORANDUM OF AGREEMENT  

SUBJECT: ONSITE WASTEWATER SYSTEM APPLICATION  

This is an agreement that the onsite wastewater system installed on this property has been permitted under authority of Act 402 of 1977 and by the Arkansas Department of Health with the understanding that the following provisions are met:  

1. Onsite Wastewater Systems requiring a Monitoring Contract with a Certified Monitoring Personnel are Holding Tanks, Experimental Systems (i.e. Reduced Absorption Areas, *ABGs), and Drip Dispersal Systems. *Aerobic Biological Generators – Commercial applications only, residential applications must follow manufacturers’ service contract requirements.  

2. The property owner assumes all responsibility for the proper operation of the onsite wastewater system.  

3. The property owner must maintain a monitoring contract with a licensed Certified Monitoring Personnel for the life of the system and retain Onsite Wastewater System Assessments (EHP-71), on file, for at least five (5) years.  

4. The Arkansas Department of Health has no responsibility in the operation and maintenance of such systems.  

5. That the Arkansas Department of Health may monitor the system as to its operation capabilities.  

6. That the Arkansas Department of Health is granted permission to make such inspections as deemed necessary.  

7. Subsurface systems with flows ≥3000 gpd and all surface discharging systems require the owner to file an additional permit application with the Arkansas Department of Environmental Quality (ADEQ).  

8. That, on the sale of the property, the owner of the property must disclose to the perspective buyer notice of this agreement and any permit requirements. The buyer is to sign memoranda, contracts or permit name change terms and submit these documents to the appropriate regulatory agency.  

SIGNED: ___________________________  
(Property Owner)  

DATE: 7/31/18  

SIGNED: ___________________________  
(Health Department)  

DATE: 8/17/18  

EHP-35 (R 1/13)
Arkansas Department of Health
Environmental Health Protection

Individual Onsite Wastewater System Permit Application

Permit Type
- New Installation □
- Alteration / Repair □

DR Environmental ID #
7 6 0 1 0 5 5 5 4 7

<table>
<thead>
<tr>
<th>Part 1 Application</th>
<th>Treatment Type (check one)</th>
<th>Disposal Method (check one)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Owner/Applicant’s Name</td>
<td>2. Phone Number</td>
<td>3. Mailing Address</td>
</tr>
<tr>
<td>Jordan Forster</td>
<td>(479) 225-0488</td>
<td>123 West Aucutta Drive #7, Fayetteville, AR 72703</td>
</tr>
</tbody>
</table>

5. Address of Proposed System (If a 911 address is not available, attach detailed directions or map)
16729 Summer Rain, Fayetteville, AR 72703

6. Subdivision Name
n/a

7. Approval Date
n/a

8. Date Recorded
n/a

9. Lot Number
n/a

10. Lot Dimensions
198' x 660'

11. Total Area (Acres)
3.0

12. # Bedrooms / # People
4

13. Daily Flow (GPD)
450

14. Brief Legal Description of Property
NWI 1/4, NE 1/4, Section 16, Township 16 South, Range 29 West, Washington County

15. Water Supply (Specify supplier, if Public Water)
Public Water

16. GPS Coordinates
36.09673. -94.05957

17. Loading Rate (gpd/ft²)

18. System Specifications

- Primary Area
- Secondary Area
- Percolation Test (min/d)
- Primary Area, Avg
- Secondary Area, Avg

- a. Size of Septic Tank
- b. Size of Dose Tank
- c. Absorption Area
- d. Number of Field Lines
- e. Length of Field Lines

- f. Trench Depth
- g. Trench Spacing
- h. Trench Media (List Below)
- i. Trench Width

- inches

- gal

- ft

- n/a

- in

- n/a

- in

TO THE OWNER

The permit for construction may be deemed invalid by the local Environmental Health Specialist before the start of construction, if the site and/or soil conditions have changed after approval of this permit, or if the information within this permit is inaccurate or has been found to be misrepresented. Approval for operation does not constitute a guarantee that the system will function properly. The approval states that the system was designed and installed according to the Arkansas Department of Health, Rules and Regulations pertaining to Onsite Wastewater Systems, unless there are exceptions or deviations noted in the comments. A Permit for Construction is valid for one (1) year from the date of approval. The authorized agent must reread the permit more than two (2) years prior to the start of any construction.

I hereby attest that item 12, the number of bedrooms (number of persons for commercial) and square footage of the structure that will utilize the designated individual onsite wastewater system in this permit, application, is accurate. I have reviewed the permit application and understand the layout, facilities, maintenance, operation and expenses that may be associated with this system.

Owner/Applicant Signature
Date

20. I certify that I have conducted the above tests and that the above listed information is in accordance with the latest requirements of the Arkansas Department of Health Rules and Regulations pertaining to Onsite Wastewater Systems.

Designated Representative

Designated Representative Signature
Date

21. Approval of Health Authority

The information and specifications in the application has been reviewed and found to meet the requirements of the Arkansas Department of Health Rules and Regulations pertaining to Onsite Wastewater Systems. A PEmit FOR CONSTRUCTION is hereby issued.

Environmental Specialist Signature
Date

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These directions are subject to the Microsoft® Service Agreement and are for informational purposes only. No guarantee is made regarding their completeness or accuracy. Construction projects, traffic, or other events may cause actual conditions to differ from these results. Map and traffic data © 2018 HERE™.
A 27 W Township St, Fayetteville, AR 72703

B 16729 Summer Rain Rd, Fayetteville, AR 72701

24 min, 9.5 mi
Light traffic (20 min without traffic)
Via AR-265, E Wyman Rd

A 27 W Township St, Fayetteville, AR 72703

1. Depart AR-180 / E Township St / W Township St toward N Green Acres Dr / N Green Acres Rd
   0.4 mi

2. Keep straight onto E Township St
   1.8 mi

3. Turn right onto AR-265 / N Crossover Rd
   2.6 mi

4. Turn left onto E Wyman Rd / CR-48
   3.8 mi

5. Turn right onto Summer Rain Rd / CR-306
   Unpaved Road
   1.0 mi

6. Arrive at Summer Rain Rd / CR-306
   If you reach Atoka Rd / CR-3334, you've gone too far

B 16729 Summer Rain Rd, Fayetteville, AR 72701